

AMENDMENTS TO THE CLAIMS

Please Cancel Claims 26 to 30, 32, and 38 to 40.

Please Amend Claim 21.

Please Add New Claims 41 to 44.

Claims 1-20 (Cancelled).

21. (Currently Amended) An isolated polynucleotide comprising a polynucleotide sequence selected from the group consisting of:

(a) an isolated polynucleotide encoding a polypeptide corresponding to amino acids 1 to 261 of SEQ ID NO:2 including the start codon;

(b) an isolated polynucleotide encoding a polypeptide corresponding to amino acids 2 to 261 of SEQ ID NO:2 minus the start codon; and

~~—— (c) an isolated polynucleotide encoding a polypeptide corresponding to amino acids 35 to 90 of SEQ ID NO:2;~~

~~—— (d) an isolated polynucleotide encoding a polypeptide corresponding to amino acids 94 to 176 of SEQ ID NO:2;~~

~~—— (e) an isolated polynucleotide encoding at least 100 contiguous amino acids of SEQ ID NO:2;~~

~~(f) an isolated polynucleotide degenerate from SEQ ID NO:1 as a result of genetic code redundancy;~~

(g) an isolated polynucleotide which represents the complimentary sequence (antisense) of (a), or (b), ~~(c), (d), (e), (f), or fragment thereof;~~ and

~~—— (h) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a) (g).~~

22. (Previously Presented) The isolated nucleic acid molecule of claim 21, wherein said polynucleotide is (a).

23. (Previously Presented) The isolated nucleic acid molecule of claim 22, wherein said polynucleotide comprises nucleotides 415 to 1197 of SEQ ID NO:1.

24. (Previously Presented) The isolated nucleic acid molecule of claim 21, wherein said polynucleotide is (b).

25. (Previously Presented) The isolated nucleic acid molecule of claim 24, wherein said polynucleotide comprises nucleotides ~~517 to 684~~ 418 to 1197 of SEQ ID NO:1.

26. (Cancelled) The isolated nucleic acid molecule of claim 21, wherein said polynucleotide is (c).

27. (Cancelled) The isolated nucleic acid molecule of claim 26, wherein said polynucleotide comprises nucleotides 694 to 942 of SEQ ID NO:1.

28. (Cancelled) The isolated nucleic acid molecule of claim 21, wherein said polynucleotide is (d).

29. (Cancelled) The isolated nucleic acid molecule of claim 21, wherein said polynucleotide is (e).

30. (Cancelled) The isolated nucleic acid molecule of claim 21, wherein said polynucleotide is (f).

31. (Previously Presented) The isolated nucleic acid molecule of claim 21, wherein said polynucleotide is (g).

32. (Cancelled) The isolated nucleic acid molecule of claim 21, wherein said polynucleotide is (h).

33. (Previously Presented) A recombinant vector comprising the isolated nucleic acid molecule of claim 21.

34. (Previously Presented) A recombinant host cell comprising the vector sequences of claim 33.

35. (Previously Presented) A method of making an isolated polypeptide comprising:

(a) culturing the recombinant host cell of claim 34 under conditions such that said polypeptide is expressed; and

(b) recovering said polypeptide.

36. (Previously Presented) The isolated polynucleotide of claim 21 wherein said nucleic acid sequence further comprises a heterologous nucleic acid sequence.

37. (Previously Presented) The isolated polynucleotide of claim 36 wherein said heterologous nucleic acid sequence encodes a heterologous polypeptide.

38. (Cancelled) An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 85% identical to a sequence provided in claim 21, wherein percent identity is calculated using a CLUSTALW global sequence alignment.

39. (Cancelled) The isolated polynucleotide of claim 38 wherein said nucleic acid sequence further comprises a heterologous nucleic acid sequence.

40. (Cancelled) The isolated polynucleotide of claim 39 wherein said heterologous nucleic acid sequence encodes a heterologous polypeptide.

41. (New) An isolated polynucleotide consisting of a polynucleotide sequence encoding a polypeptide corresponding to amino acids 35 to 90 of SEQ ID NO:2.

42. (New) The isolated polynucleotide of Claim 41, wherein said polynucleotide is nucleotides 517 to 684 of SEQ ID NO:1.

43. (New) An isolated polynucleotide consisting of a polynucleotide sequence encoding a polypeptide corresponding to amino acids 94 to 176 of SEQ ID NO:2.

44. (New) The isolated polynucleotide of Claim 43, wherein said polynucleotide is nucleotides 694 to 942 of SEQ ID NO:1.